

## Abstract of the Disclosure

An object of the present invention is to provide an atomic absorption spectrophotometer having a small installed area, in which an autosampler can be easily adjusted with a high degree of accuracy, leading to easy maintenance.

The main unit, a lamp chamber, a graphite furnace analyzing section, a frame analyzing section, and a frame gas controller are sequentially placed from right to left. An autosampler is placed on the top of the lamp chamber. A housing section for transformer and power supply unit is provided behind the lamp chamber, the graphite furnace analyzing section, the frame analyzing section, and the frame gas controller. The housing section is used as a space for a power unit used to supply electric power required for the whole atomic absorption spectrophotometer as well as the graphite furnace analyzing section. The housing section is also used as space for circuit board for controlling the whole atomic absorption photometer. The autosampler has a quadrangular sample tray. The autosampler drives an arm for holding an aspiration needle in left and right directions and also in up and down directions, and drives the sample tray in the depth direction, to select a sample.